

U.S. Patent Application no. 10/812,526
Avago Technologies Docket No.: 70030845-1
SFTGB docket no. 01015.0202UI

LISTING OF CLAIMS

The following listing of claims replaces all prior versions.

1. (Previously presented) A light emitting diode package comprising:
a ceramic substrate for mounting a light emitting diode, said substrate defining a cavity with a vertical ceramic sidewall, wherein said cavity is shaped to focus light in a predetermined direction; and
a metallic coating on a portion of said ceramic substrate for reflecting light in a predetermined direction.
2. (Previously presented) The light emitting diode package as recited in Claim 1 wherein said cavity is substantially a rectangular shaped cavity.
3. (Previously Presented) The light emitting diode package as recited in Claim 1 wherein said cavity is substantially a trapezoidal shaped cavity.
4. (Previously Presented) The light emitting diode package as recited in Claim 1 wherein said cavity is substantially an oval shaped cavity.
5. (Previously Presented) The light emitting diode package as recited in Claim 1 wherein said cavity is substantially a circular shaped cavity.
6. (Cancelled)
7. (Cancelled)
8. (Previously Presented) A method for manufacture of a light emitting diode package comprising:
forming a ceramic substrate for mounting a light emitting diode, said substrate defining a cavity with a vertical ceramic sidewall, and said cavity having a bottom and a top, wherein said cavity is shaped to focus light in a predetermined direction;
coating a portion of said ceramic cavity with a light reflective material;

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positioning a light emitting diode on said substrate; and
depositing an optically transparent material in said cavity to protect said light emitting diode.

9. (Previously Presented) The method as recited in Claim 8 wherein said forming said ceramic substrate comprises forming a cavity that is substantially rectangular shaped.

10. (Previously Presented) The method as recited in Claim 8 wherein said forming said ceramic substrate comprises forming a cavity that is substantially trapezoidal shaped.

11. (Previously Presented) The method as recited in Claim 8 wherein said forming said ceramic substrate comprises forming a cavity that is substantially oval shaped.

12. (Previously Presented) The method as recited in Claim 8 wherein said forming said ceramic substrate comprises forming a cavity that is substantially circular shaped.

13. (Cancelled)

14. (Cancelled)

15. (Original) The method as recited in Claim 8 wherein said positioning said light emitting diode comprises determining a location between said bottom and said top of said cavity to locate said light emitting diode to achieve a predetermined viewing angle of said light emitting diode.

16. (Original) The method as recited in Claim 15 further comprising locating said light emitting diode closer to said bottom of said cavity to reduce said viewing angle of said light emitting diode.

17. (Original) The method as recited in Claim 15 further comprising locating said light emitting diode closer to said top of said cavity to increase said viewing angle of said light emitting diode.

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18. (Original) The method as recited in Claim 8 wherein said depositing said optically transparent material in said cavity to protect said light emitting diode comprises forming a domed layer of said optically transparent material over said light emitting diode.

19. (Original) The method as recited in Claim 8 wherein said depositing said optically transparent material in said cavity to protect said light emitting diode comprises forming a concaved layer of said optically transparent material over said light emitting diode.

20. Cancelled.

21. Cancelled.